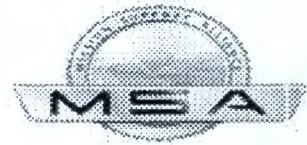


PO Box 650 S3-30
Richland, WA 99352



February 4, 2011

Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF111158

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF111158

- * Cover Sheet (Attachment 1)
- * Narrative (Attachment 2)
- * Analytical Results (Attachment 3)
- * Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Susan Kon

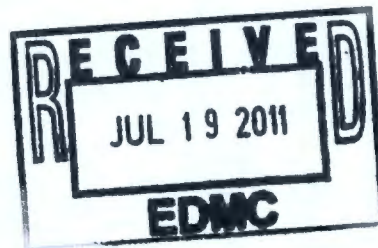
For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments



File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages

Including cover page

WSCF SAF Number Cross Reference

Group # WSCF111158
Data Deliverable Date 02/07/11

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
F02-007	B2B8K4	111158001	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8K5	111158002	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8K6	111158003	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8K7	111158004	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8K8	111158005	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8K9	111158006	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L0	111158007	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L1	111158008	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L2	111158009	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L3	111158010	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L4	111158011	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L5	111158012	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L6	111158013	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L7	111158014	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L8	111158015	OTHERSOLID	01/15/11	01/16/11
F02-007	B2B8L9	111158016	OTHERSOLID	01/15/11	01/16/11

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW), Modification No. 2 to Agreement 36587, Release 3, "FH WSCF ANALYTICAL SERVICES FOR GROUNDWATER."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** -- Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** -- Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** -- Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** -- Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Cyanide -- The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group.
Analytical Note(s):

- o Batch QC 174909
- o Matrix Spike and/or Matrix Spike Duplicate recoveries are outside established laboratory limits. Affected sample results in this batch were "N" flagged.

- All other applicable QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Tracers are used to determine chemical yield. RPD is monitored in sample duplicate and is not required for tracer recovery per SOW.

- Gross Alpha / Gross Beta:
 - All applicable QC controls are within the established limits.
- Strontium-89/90:
 - All applicable QC controls are within the established limits.
- Isotopic Uranium analysis:
 - Batch QC 174429
 - Uranium-235 - Duplicate Relative Percent Difference(s) (RPD) did not meet the established laboratory limits. Duplicate Relative Percent Difference (RPD) does not apply to results below 5X the minimum detectable activity. No flags issued.
 - All other applicable QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 75 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Michael Neely

Contract # MOA-FH-CHPRC-2008
Group # WSCF111158
Report Date February 4, 2011

Analytical: Electronically signed by Susan Kon

Client Services: Electronically signed by Heather Medley

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no 'Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Michael Neely
Department Inorganic

Group # WSCF111158

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
175104	175105	4	BLANK	47388	BLANK		ICP-2008 MS RCRA Metals
175104	175105	5	LCS	47389	LCS		ICP-2008 MS RCRA Metals
175104	175105	6	MS	47390	B2B8K4(111158001MS)	111158001	ICP-2008 MS RCRA Metals
175104	175105	7	MSD	47391	B2B8K4(111158001MSD)	111158001	ICP-2008 MS RCRA Metals
175104	175105	8	SAMPLE	111158001	B2B8K4		ICP-2008 MS RCRA Metals
175104	175105	9	SAMPLE	111158002	B2B8K5		ICP-2008 MS RCRA Metals
175104	175105	10	SAMPLE	111158003	B2B8K6		ICP-2008 MS RCRA Metals
175104	175105	11	SAMPLE	111158004	B2B8K7		ICP-2008 MS RCRA Metals
175104	175105	12	SAMPLE	111158005	B2B8K8		ICP-2008 MS RCRA Metals
175104	175105	13	SAMPLE	111158006	B2B8K9		ICP-2008 MS RCRA Metals
175104	175105	16	SAMPLE	111158007	B2B8L0		ICP-2008 MS RCRA Metals
175104	175105	17	SAMPLE	111158008	B2B8L1		ICP-2008 MS RCRA Metals
175104	175105	18	SAMPLE	111158009	B2B8L2		ICP-2008 MS RCRA Metals
175104	175105	19	SAMPLE	111158010	B2B8L3		ICP-2008 MS RCRA Metals
175104	175105	20	SAMPLE	111158011	B2B8L4		ICP-2008 MS RCRA Metals
175104	175105	21	SAMPLE	111158012	B2B8L5		ICP-2008 MS RCRA Metals
175104	175105	22	SAMPLE	111158013	B2B8L6		ICP-2008 MS RCRA Metals
175104	175105	23	SAMPLE	111158014	B2B8L7		ICP-2008 MS RCRA Metals
175104	175105	24	SAMPLE	111158015	B2B8L8		ICP-2008 MS RCRA Metals
175104	175105	25	SAMPLE	111158016	B2B8L9		ICP-2008 MS RCRA Metals

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
174399	175954	1	BLANK	46584	BLANK		Strontium 89/90 (GPC/GEA)
174399	175954	2	LCS	46585	LCS		Strontium 89/90 (GPC/GEA)
174399	175954	3	DUP	46586	B2B8K4(111158001DUP)	111158001	Strontium 89/90 (GPC/GEA)
174399	175954	4	SAMPLE	111158001	B2B8K4		Strontium 89/90 (GPC/GEA)
174399	175954	5	SAMPLE	111158002	B2B8K5		Strontium 89/90 (GPC/GEA)
174399	175954	6	SAMPLE	111158003	B2B8K6		Strontium 89/90 (GPC/GEA)
174399	175954	7	SAMPLE	111158004	B2B8K7		Strontium 89/90 (GPC/GEA)
174399	175954	8	SAMPLE	111158005	B2B8K8		Strontium 89/90 (GPC/GEA)
174399	175954	9	SAMPLE	111158006	B2B8K9		Strontium 89/90 (GPC/GEA)
174399	175954	10	SAMPLE	111158007	B2B8L0		Strontium 89/90 (GPC/GEA)
174399	175954	11	SAMPLE	111158008	B2B8L1		Strontium 89/90 (GPC/GEA)
174402	175207	1	BLANK	46600	BLANK		Strontium 89/90 (GPC/GEA)
174402	175207	2	LCS	46601	LCS		Strontium 89/90 (GPC/GEA)
174402	175207	3	DUP	46602	B2B8L2(111158009DUP)	111158009	Strontium 89/90 (GPC/GEA)
174402	175207	4	SAMPLE	111158009	B2B8L2		Strontium 89/90 (GPC/GEA)
174402	175207	5	SAMPLE	111158010	B2B8L3		Strontium 89/90 (GPC/GEA)
174402	175207	6	SAMPLE	111158011	B2B8L4		Strontium 89/90 (GPC/GEA)
174402	175207	7	SAMPLE	111158012	B2B8L5		Strontium 89/90 (GPC/GEA)
174402	175207	8	SAMPLE	111158013	B2B8L6		Strontium 89/90 (GPC/GEA)
174402	175207	9	SAMPLE	111158014	B2B8L7		Strontium 89/90 (GPC/GEA)
174402	175207	10	SAMPLE	111158015	B2B8L8		Strontium 89/90 (GPC/GEA)
174402	175207	11	SAMPLE	111158016	B2B8L9		Strontium 89/90 (GPC/GEA)
174429	175324	1	BLANK	46644	BLANK		Uranium (AEA)

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
174429	175324	2	LCS	46645	LCS		Uranium (AEA)
174429	175324	3	DUP	46646	B2B8K4(111158001DUP)	111158001	Uranium (AEA)
174429	175324	4	SAMPLE	111158001	B2B8K4		Uranium (AEA)
174429	175324	5	SAMPLE	111158002	B2B8K5		Uranium (AEA)
174429	175324	6	SAMPLE	111158003	B2B8K6		Uranium (AEA)
174429	175324	7	SAMPLE	111158004	B2B8K7		Uranium (AEA)
174429	175324	8	SAMPLE	111158005	B2B8K8		Uranium (AEA)
174429	175324	9	SAMPLE	111158006	B2B8K9		Uranium (AEA)
174429	175324	10	SAMPLE	111158007	B2B8L0		Uranium (AEA)
174429	175324	11	SAMPLE	111158008	B2B8L1		Uranium (AEA)
174431	175411	1	BLANK	46650	BLANK		Uranium (AEA)
174431	175411	2	LCS	46651	LCS		Uranium (AEA)
174431	175411	3	DUP	46652	B2B8L2(111158009DUP)	111158009	Uranium (AEA)
174431	175411	4	SAMPLE	111158009	B2B8L2		Uranium (AEA)
174431	175411	5	SAMPLE	111158010	B2B8L3		Uranium (AEA)
174431	175411	6	SAMPLE	111158011	B2B8L4		Uranium (AEA)
174431	175411	7	SAMPLE	111158012	B2B8L5		Uranium (AEA)
174431	175411	8	SAMPLE	111158013	B2B8L6		Uranium (AEA)
174431	175411	9	SAMPLE	111158014	B2B8L7		Uranium (AEA)
174431	175411	10	SAMPLE	111158015	B2B8L8		Uranium (AEA)
174431	175411	11	SAMPLE	111158016	B2B8L9		Uranium (AEA)
174718	175006	1	BLANK	46933	BLANK		Gross Alpha/Gross Beta
174718	175006	2	LCS	46934	LCS		Gross Alpha/Gross Beta

Batch QC List

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
174718	175006	3	SAMPLE	111158001	B2B8K4		Gross Alpha/Gross Beta
174718	175006	4	DUP	46935	B2B8K5(111158002DUP)	111158002	Gross Alpha/Gross Beta
174718	175006	5	SAMPLE	111158002	B2B8K5		Gross Alpha/Gross Beta
174718	175006	6	SAMPLE	111158003	B2B8K6		Gross Alpha/Gross Beta
174718	175006	7	SAMPLE	111158004	B2B8K7		Gross Alpha/Gross Beta
174718	175006	8	SAMPLE	111158005	B2B8K8		Gross Alpha/Gross Beta
174718	175006	9	SAMPLE	111158006	B2B8K9		Gross Alpha/Gross Beta
174718	175006	10	SAMPLE	111158007	B2B8L0		Gross Alpha/Gross Beta
174718	175006	11	SAMPLE	111158008	B2B8L1		Gross Alpha/Gross Beta
174720	175007	1	BLANK	46936	BLANK		Gross Alpha/Gross Beta
174720	175007	2	LCS	46937	LCS		Gross Alpha/Gross Beta
174720	175007	3	SAMPLE	111158009	B2B8L2		Gross Alpha/Gross Beta
174720	175007	4	DUP	46938	B2B8L3(111158010DUP)	111158010	Gross Alpha/Gross Beta
174720	175007	5	SAMPLE	111158010	B2B8L3		Gross Alpha/Gross Beta
174720	175007	6	SAMPLE	111158011	B2B8L4		Gross Alpha/Gross Beta
174720	175007	7	SAMPLE	111158012	B2B8L5		Gross Alpha/Gross Beta
174720	175007	8	SAMPLE	111158013	B2B8L6		Gross Alpha/Gross Beta
174720	175007	9	SAMPLE	111158014	B2B8L7		Gross Alpha/Gross Beta
174720	175007	10	SAMPLE	111158015	B2B8L8		Gross Alpha/Gross Beta
174720	175007	11	SAMPLE	111158016	B2B8L9		Gross Alpha/Gross Beta

Batch QC List

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
174909	174910	1	BLANK	47176	BLANK		Cyanide by Midi/Spectrophotometer
174909	174910	4	LCS	47178	LCS		Cyanide by Midi/Spectrophotometer
174909	174910	5	SAMPLE	111158001	B2B8K4		Cyanide by Midi/Spectrophotometer
174909	174910	6	MS	47179	B2B8K4(111158001MS)	111158001	Cyanide by Midi/Spectrophotometer
174909	174910	7	MSD	47180	B2B8K4(111158001MSD)	111158001	Cyanide by Midi/Spectrophotometer
174909	174910	8	SAMPLE	111158002	B2B8K5		Cyanide by Midi/Spectrophotometer
174909	174910	9	SAMPLE	111158003	B2B8K6		Cyanide by Midi/Spectrophotometer
174909	174910	10	SAMPLE	111158004	B2B8K7		Cyanide by Midi/Spectrophotometer
174909	174910	11	SAMPLE	111158005	B2B8K8		Cyanide by Midi/Spectrophotometer
174909	174910	12	SAMPLE	111158006	B2B8K9		Cyanide by Midi/Spectrophotometer
174909	174910	13	SAMPLE	111158007	B2B8L0		Cyanide by Midi/Spectrophotometer
174909	174910	16	SAMPLE	111158008	B2B8L1		Cyanide by Midi/Spectrophotometer
174909	174910	17	SAMPLE	111158009	B2B8L2		Cyanide by Midi/Spectrophotometer
174909	174910	18	SAMPLE	111158010	B2B8L3		Cyanide by Midi/Spectrophotometer
174909	174910	19	SAMPLE	111158011	B2B8L4		Cyanide by Midi/Spectrophotometer
174909	174910	20	SAMPLE	111158012	B2B8L5		Cyanide by Midi/Spectrophotometer
174909	174910	21	SAMPLE	111158013	B2B8L6		Cyanide by Midi/Spectrophotometer
174909	174910	22	SAMPLE	111158014	B2B8L7		Cyanide by Midi/Spectrophotometer
174909	174910	23	SAMPLE	111158015	B2B8L8		Cyanide by Midi/Spectrophotometer
174909	174910	24	SAMPLE	111158016	B2B8L9		Cyanide by Midi/Spectrophotometer

Method Reference

Attention Michael Neely
Department Inorganic

Group # WSCF111158

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-544-441	WSCF Toxicity Characteristic Leaching Procedure (TCLP) Low Activity Samples
	EPA SW-846 1311 Toxicity Characteristic Leaching Procedure
LA-505-412	Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry (RCRA Metals)
	EPA-600/R-94-111 200.8 Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma
	HEIS TCLP_200.8_MET_ICP TCLP Metal by ICP-MS, 1311/200.8

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-220-406	Strontium-89 and 90 in Aqueous Samples by SR-SPEC Separation
HEIS	SRTOT_SEP_PRECIP_GPC Strontium 89/90, by Sr-Spec Sep.
LA-508-471	Determination Of Uranium, Plutonium, And Americium
HEIS	UIISO_IE_PRECIP_AEA Uranium Iso, Alpha Spec
LA-508-415	Operation Of The Protean 2-Inch Alpha/Beta Counting System For Gross Alpha/ Beta Samples
HEIS	ALPHA_GPC Gross Alpha by GPC
HEIS	BETA_GPC Gross Beta by GPC
HEIS	SRTOT_SEP_PRECIP_GPC Strontium beta isotopic, GPC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.ri.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-412	Total Residual Percent Solids Dried at 103 - 105 Degrees C		
	EPA-600/4-79-020	160.3	Total Residue
	Standard Methods	2540B	Total Solids Dried at 103-105 C
LA-695-402	HEIS	%SOLIDS	Dry Weight, Percent Solids
	Determination of Cyanide by Mididistillation and		
	EPA	SW-846 Method 9014/9010	Determination of Cyanide by
			Midi-Distillation and Spectrophotometric Analysis
	SM	4500 CNE	Cyanide, Total
	HEIS	335.2_CYANIDE	Cyanide, Total

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158001
SAF# F02-007
Sample ID B2B8K4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1280		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158002
SAF# F02-007
Sample ID B2B8K5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1340		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158003
SAF# F02-007
Sample ID B2B8K6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1370		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158004
SAF# F02-007
Sample ID B2B8K7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1310		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158005
SAF# F02-007
Sample ID B2B8K8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1320		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158006
SAF# F02-007
Sample ID B2B8K9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1280		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158007
SAF# F02-007
Sample ID B2B8L0

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1610		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158008
SAF# F02-007
Sample ID B2B8L1

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1600		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158009
SAF# F02-007
Sample ID B2B8L2

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1090		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158010
SAF# F02-007
Sample ID B2B8L3

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1170		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158011
SAF# F02-007
Sample ID B2B8L4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1150		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158012
SAF# F02-007
Sample ID B2B8L5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1260		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158013
SAF# F02-007
Sample ID B2B8L6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1900		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158014
SAF# F02-007
Sample ID B2B8L7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	U	<2.0		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1370		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158015
SAF# F02-007
Sample ID B2B8L8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	B	2.45		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1150		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

Sample # 111158016
SAF# F02-007
Sample ID B2B8L9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										01/26/11
ICP-MS RCRA										
Nickel	7440-02-0	LA-505-412	B	2.64		ug/L	1	2.0	44	02/01/11
Chromium	7440-47-3	LA-505-412		1180		ug/L	1	5.0	11	02/01/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158001
SAF# F02-007
Sample ID B2B8K4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		5.3	.69	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		5.3	.65	pCi/g	1	0.30		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.3	.91	pCi/g	1	0.45		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		3.5	.96	pCi/g	1	0.024		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.30	.13	pCi/g	1	0.071		01/28/11
Uranium-238	U-238	LA-508-471		2.7	.77	pCi/g	1	0.024		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158002
SAF# F02-007
Sample ID B2B8K5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		4.9	.64	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		6.5	.76	pCi/g	1	0.28		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.60	.84	pCi/g	1	0.49		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		3.3	.92	pCi/g	1	0.064		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.17	.091	pCi/g	1	0.026		01/28/11
Uranium-238	U-238	LA-508-471		2.9	.82	pCi/g	1	0.023		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158003
SAF# F02-007
Sample ID B2B8K6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		22	2.4	pCi/g	1	0.19		01/31/11
Gross Beta	12587-47-2	LA-508-415		18	2	pCi/g	1	0.28		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.7	.75	pCi/g	1	0.44		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		14	3.7	pCi/g	1	0.022		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.65	.23	pCi/g	1	0.065		01/28/11
Uranium-238	U-238	LA-508-471		11	3	pCi/g	1	0.022		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158004
SAF# F02-007
Sample ID B2B8K7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		31	3.2	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		24	2.5	pCi/g	1	0.29		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.0	.8	pCi/g	1	0.42		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		19	4.9	pCi/g	1	0.088		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.84	.28	pCi/g	1	0.028		01/28/11
Uranium-238	U-238	LA-508-471		15	4	pCi/g	1	0.026		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158005
SAF# F02-007
Sample ID B2B8K8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		42	4.4	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		36	3.8	pCi/g	1	0.29		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	0.31	.91	pCi/g	1	0.49		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		24	6.2	pCi/g	1	0.025		01/28/11
Uranium-235	15117-96-1	LA-508-471		1.4	.42	pCi/g	1	0.027		01/28/11
Uranium-238	U-238	LA-508-471		19	4.9	pCi/g	1	0.067		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158006
SAF# F02-007
Sample ID B2B8K9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		46	4.8	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		40	4.1	pCi/g	1	0.30		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.37	.78	pCi/g	1	0.44		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		27	6.9	pCi/g	1	0.069		01/28/11
Uranium-235	15117-96-1	LA-508-471		1.5	.45	pCi/g	1	0.076		01/28/11
Uranium-238	U-238	LA-508-471		21	5.4	pCi/g	1	0.026		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158007
SAF# F02-007
Sample ID B2B8L0

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		12	1.4	pCi/g	1	0.17		01/31/11
Gross Beta	12587-47-2	LA-508-415		11	1.2	pCi/g	1	0.26		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.54	.69	pCi/g	1	0.38		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		8.2	2.2	pCi/g	1	0.095		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.38	.15	pCi/g	1	0.080		01/28/11
Uranium-238	U-238	LA-508-471		6.3	1.7	pCi/g	1	0.058		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158008
SAF# F02-007
Sample ID B2B8L1

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		12	1.4	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		9.5	1.1	pCi/g	1	0.30		01/31/11
SR-89/90										01/25/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.80	.82	pCi/g	1	0.48		02/03/11
Th/Pu/Am/U Teva										01/28/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		8.5	2.2	pCi/g	1	0.068		01/28/11
Uranium-235	15117-96-1	LA-508-471		0.35	.15	pCi/g	1	0.027		01/28/11
Uranium-238	U-238	LA-508-471		6.6	1.8	pCi/g	1	0.068		01/28/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158009
SAF# F02-007
Sample ID B2B8L2

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		20	2.2	pCi/g	1	0.22		01/31/11
Gross Beta	12587-47-2	LA-508-415		21	2.2	pCi/g	1	0.30		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.25	.76	pCi/g	1	0.43		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		14	3.6	pCi/g	1	0.093		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.55	.2	pCi/g	1	0.026		01/31/11
Uranium-238	U-238	LA-508-471		11	2.9	pCi/g	1	0.024		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158010
SAF# F02-007
Sample ID B2B8L3

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		28	2.9	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		21	2.2	pCi/g	1	0.27		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.4	.67	pCi/g	1	0.35		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		17	4.5	pCi/g	1	0.024		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.92	.3	pCi/g	1	0.072		01/31/11
Uranium-238	U-238	LA-508-471		13	3.4	pCi/g	1	0.024		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158011
SAF# F02-007
Sample ID B2B8L4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		16	1.8	pCi/g	1	0.21		01/31/11
Gross Beta	12587-47-2	LA-508-415		13	1.4	pCi/g	1	0.28		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.72	.74	pCi/g	1	0.40		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		11	2.8	pCi/g	1	0.080		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.49	.18	pCi/g	1	0.025		01/31/11
Uranium-238	U-238	LA-508-471		8.8	2.3	pCi/g	1	0.063		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158012
SAF# F02-007
Sample ID B2B8L5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		14	1.6	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		11	1.2	pCi/g	1	0.27		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.54	.65	pCi/g	1	0.38		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		9.6	2.5	pCi/g	1	0.085		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.30	.13	pCi/g	1	0.023		01/31/11
Uranium-238	U-238	LA-508-471		7.4	2	pCi/g	1	0.074		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158013
SAF# F02-007
Sample ID B2B8L6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		24	2.6	pCi/g	1	0.21		01/31/11
Gross Beta	12587-47-2	LA-508-415		20	2.2	pCi/g	1	0.28		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.0	.65	pCi/g	1	0.39		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		14	3.8	pCi/g	1	0.085		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.58	.22	pCi/g	1	0.074		01/31/11
Uranium-238	U-238	LA-508-471		12	3.2	pCi/g	1	0.025		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158014
SAF# F02-007
Sample ID B2B8L7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		61	6.2	pCi/g	1	0.20		01/31/11
Gross Beta	12587-47-2	LA-508-415		53	5.4	pCi/g	1	0.27		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.2	.63	pCi/g	1	0.36		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		37	9.7	pCi/g	1	0.086		01/31/11
Uranium-235	15117-96-1	LA-508-471		1.6	.5	pCi/g	1	0.034		01/31/11
Uranium-238	U-238	LA-508-471		29	7.6	pCi/g	1	0.032		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158015
SAF# F02-007
Sample ID B2B8L8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		25	2.7	pCi/g	1	0.22		01/31/11
Gross Beta	12587-47-2	LA-508-415		26	2.7	pCi/g	1	0.30		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-0.88	.65	pCi/g	1	0.40		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		16	4.2	pCi/g	1	0.025		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.68	.24	pCi/g	1	0.027		01/31/11
Uranium-238	U-238	LA-508-471		13	3.3	pCi/g	1	0.025		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Sample # 111158016
SAF# F02-007
Sample ID B2B8L9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Alpha/Beta Prep										01/24/11
Gross Alpha/Beta										
Gross Alpha	12587-46-1	LA-508-415		27	2.9	pCi/g	1	0.22		01/31/11
Gross Beta	12587-47-2	LA-508-415		29	3	pCi/g	1	0.30		01/31/11
SR-89/90										01/26/11
SR-89/90										
Strontium-89/90	SR-RAD	LA-220-406	U	-1.4	.62	pCi/g	1	0.37		02/03/11
Th/Pu/Am/U Teva										01/30/11
Uranium Iso										
Uranium-234	U-233/234	LA-508-471		23	6	pCi/g	1	0.027		01/31/11
Uranium-235	15117-96-1	LA-508-471		0.85	.29	pCi/g	1	0.030		01/31/11
Uranium-238	U-238	LA-508-471		19	4.9	pCi/g	1	0.094		01/31/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
U - Analyzed for but not detected above limiting criteria.
N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158001
SAF# F02-007
Sample ID B2B8K4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.997		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158002
SAF# F02-007
Sample ID B2B8K5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.937		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158003
SAF# F02-007
Sample ID B2B8K6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.562		mg/kg	1	0.20	0.99	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158004
SAF# F02-007
Sample ID B2B8K7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.675		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158005
SAF# F02-007
Sample ID B2B8K8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.901		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158006
SAF# F02-007
Sample ID B2B8K9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.703		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158007
SAF# F02-007
Sample ID B2B8L0

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.626		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158008
SAF# F02-007
Sample ID B2B8L1

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.571		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158009
SAF# F02-007
Sample ID B2B8L2

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.731		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158010
SAF# F02-007
Sample ID B2B8L3

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.629		mg/kg	1	0.20	0.99	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158011
SAF# F02-007
Sample ID B2B8L4

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.443		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158012
SAF# F02-007
Sample ID B2B8L5

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide	57-12-5	LA-695-402	BN	0.571		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158013
SAF# F02-007
Sample ID B2B8L6

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	N	1.93		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158014
SAF# F02-007
Sample ID B2B8L7

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	N	1.79		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158015
SAF# F02-007
Sample ID B2B8L8

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.614		mg/kg	1	0.20	1.0	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

Sample # 111158016
SAF# F02-007
Sample ID B2B8L9

Matrix OTHERSOLID
Sampled 01/15/11
Received 01/16/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Cyanide Prep										01/20/11
Cyanide										
Cyanide	57-12-5	LA-695-402	BN	0.772		mg/kg	1	0.20	0.99	01/20/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Michael Neely
Department Wet Chemistry

Group # WSCF111158

QC Batch 174909 Test Cyanide by Midi/Spectrophotometer
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008, 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
			QC Sample #47176							
Cyanide	57-12-5		<4.0	ug/L					U	01/20/11
LCS										
			QC Sample #47178							
Cyanide	57-12-5		55.5	mg/kg	88.8	85 - 115				01/20/11
MS										
			QC Sample #47179							
			Original 111158001							
Cyanide	57-12-5	0.997	1.51	mg/kg	76	75 - 125				01/20/11
MSD										
			QC Sample #47180							
			Original 111158001							
Cyanide	57-12-5	0.997	1.36	mg/kg	68.4	75 - 125	10.50	20	Paired 47179 N	01/20/11

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF111158

QC Batch 175104 Test ICP-2008 MS RCRA Metals
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008, 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			QC Sample #47388							
Chromium LCS	7440-47-3		<5.0	ug/L					U	02/01/11
			QC Sample #47389							
Chromium MS	7440-47-3		403	ug/L	100.8	70 - 130				02/01/11
			QC Sample #47390 Original 111158001							
Chromium MSD	7440-47-3	1280	470	ug/L	117.5	70 - 130				02/01/11
			QC Sample #47391 Original 111158001							
Chromium	7440-47-3	1280	504	ug/L	126	70 - 130	7.00	20	Paired 47390	02/01/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174399 Test Strontium 89/90 (GPC/GEA)
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			QC Sample #46584							
Strontium-89/90 LCS	SR-RAD	-0.92		pCi/g					U	02/03/11
			QC Sample #46585							
Strontium-89/90 DUP	SR-RAD	25		pCi/g	89	80 - 120				02/03/11
			QC Sample #46586							
			Original 111158001							
Strontium-89/90	SR-RAD	-1.3	-0.11	pCi/g			-168.80	30	* U	02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174402 Test Strontium 89/90 (GPC/GEA)
Associated Samples 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
Strontium-89/90	SR-RAD		-0.83	pCi/g					U	02/03/11
LCS										
Strontium-89/90	SR-RAD		27	pCi/g	95.2	80 - 120				02/03/11
DUP										
Strontium-89/90	SR-RAD	-0.25	-0.82	pCi/g			-106.50	30	* U	02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174429 Test Uranium (AEA)
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #46644								
Uranium-234	U-233/234		0.043	pCi/g					U	01/28/11
Uranium-235	15117-96-1		0.057	pCi/g					U	01/28/11
Uranium-238	U-238		0.052	pCi/g					U	01/28/11
LCS		QC Sample #46645								
Uranium-234	U-233/234		8.9	pCi/sample	109	80 - 120				01/28/11
DUP		QC Sample #46646								
		Original 111158001								
Uranium-234	U-233/234	3.5	3.8	pCi/g			8.20	30		01/28/11
Uranium-235	15117-96-1	0.30	0.17	pCi/g			55.30	30	* X	01/28/11
Uranium-238	U-238	2.7	2.9	pCi/g			7.10	30		01/28/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174431 Test Uranium (AEA)
Associated Samples 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #46650								
Uranium-234	U-233/234		0.019	pCi/g					U	01/31/11
Uranium-235	15117-96-1		0.021	pCi/g					U	01/31/11
Uranium-238	U-238		0.047	pCi/g					U	01/31/11
LCS		QC Sample #46651								
Uranium-234	U-233/234		8.7	pCi/sample	106.4	80 - 120				01/31/11
DUP		QC Sample #46652								
		Original 111158009								
Uranium-234	U-233/234	14	14	pCi/g			0.00	30		01/31/11
Uranium-235	15117-96-1	0.55	0.60	pCi/g			8.70	30		01/31/11
Uranium-238	U-238	11	11	pCi/g			0.00	30		01/31/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174718 Test Gross Alpha/Gross Beta
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			QC Sample #46933							
Gross Alpha	12587-46-1		-0.026	pCi/g					U	01/31/11
Gross Beta	12587-47-2		-0.078	pCi/g					U	01/31/11
LCS			QC Sample #46934							
Gross Alpha	12587-46-1		9.1	pCi/g	111.6	80 - 120				01/31/11
Gross Beta	12587-47-2		26	pCi/g	115.1	80 - 120				01/31/11
DUP			QC Sample #46935							
			Original 111158002							
Gross Alpha	12587-46-1	4.9	6.0	pCi/g			20.20	30		01/31/11
Gross Beta	12587-47-2	6.5	5.4	pCi/g			18.50	30		01/31/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174720 Test Gross Alpha/Gross Beta
Associated Samples 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #46936								
Gross Alpha	12587-46-1		-0.045	pCi/g					U	01/31/11
Gross Beta	12587-47-2		-0.042	pCi/g					U	01/31/11
LCS		QC Sample #46937								
Gross Alpha	12587-46-1		8.8	pCi/g	107.7	80 - 120				01/31/11
Gross Beta	12587-47-2		26	pCi/g	118.7	80 - 120				01/31/11
DUP		QC Sample #46938								
		Original 111158010								
Gross Alpha	12587-46-1	28	23	pCi/g			19.60	30		01/31/11
Gross Beta	12587-47-2	21	19	pCi/g			10.00	30		01/31/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174399 Test Strontium 89/90 (GPC/GEA)
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158001						
Strontium-85	13967-73-2				81.4	25 - 105				02/03/11
SAMPLE				Sample #111158002						
Strontium-85	13967-73-2				70.2	25 - 105				02/03/11
SAMPLE				Sample #111158003						
Strontium-85	13967-73-2				77.4	25 - 105				02/03/11
SAMPLE				Sample #111158004						
Strontium-85	13967-73-2				84.1	25 - 105				02/03/11
SAMPLE				Sample #111158005						
Strontium-85	13967-73-2				72.3	25 - 105				02/03/11
SAMPLE				Sample #111158006						
Strontium-85	13967-73-2				83	25 - 105				02/03/11
SAMPLE				Sample #111158007						
Strontium-85	13967-73-2				81.4	25 - 105				02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158008						
Strontium-85 BLANK	13967-73-2			QC Sample #46584	75.6	25 - 105				02/03/11
Strontium-85 LCS	13967-73-2			QC Sample #46585	75.6	25 - 105				02/03/11
Strontium-85 DUP	13967-73-2			QC Sample #46586 Original 111158001	80	25 - 105				02/03/11
Strontium-85	13967-73-2				67.1	25 - 105	20.00			02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174402 Test Strontium 89/90 (GPC/GEA)
Associated Samples 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158009						
Strontium-85	13967-73-2				81.8	25 - 105				02/03/11
SAMPLE				Sample #111158010						
Strontium-85	13967-73-2				91.8	25 - 105				02/03/11
SAMPLE				Sample #111158011						
Strontium-85	13967-73-2				84.5	25 - 105				02/03/11
SAMPLE				Sample #111158012						
Strontium-85	13967-73-2				84.6	25 - 105				02/03/11
SAMPLE				Sample #111158013						
Strontium-85	13967-73-2				85.6	25 - 105				02/03/11
SAMPLE				Sample #111158014						
Strontium-85	13967-73-2				88	25 - 105				02/03/11
SAMPLE				Sample #111158015						
Strontium-85	13967-73-2				87	25 - 105				02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Analyte	CAS #	Original Found	QC Found	Units	% RecovLimits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158016					
Strontium-85	13967-73-2				95.7 25 - 105				02/03/11
BLANK				QC Sample #46600					
Strontium-85	13967-73-2				85.1 25 - 105				02/03/11
LCS				QC Sample #46601					
Strontium-85	13967-73-2				79.8 25 - 105				02/03/11
DUP				QC Sample #46602					
				Original 111158009					
Strontium-85	13967-73-2				88.8 25 - 105	8.70			02/03/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174429 Test Uranium (AEA)
Associated Samples 111158001, 111158002, 111158003, 111158004, 111158005, 111158006, 111158007, 111158008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158001						
Uranium-232 Tracer	14158-29-3				92.9	25 - 105				01/28/11
SAMPLE				Sample #111158002						
Uranium-232 Tracer	14158-29-3				89.7	25 - 105				01/28/11
SAMPLE				Sample #111158003						
Uranium-232 Tracer	14158-29-3				96	25 - 105				01/28/11
SAMPLE				Sample #111158004						
Uranium-232 Tracer	14158-29-3				83.6	25 - 105				01/28/11
SAMPLE				Sample #111158005						
Uranium-232 Tracer	14158-29-3				84.8	25 - 105				01/28/11
SAMPLE				Sample #111158006						
Uranium-232 Tracer	14158-29-3				87.7	25 - 105				01/28/11
SAMPLE				Sample #111158007						
Uranium-232 Tracer	14158-29-3				94.3	25 - 105				01/28/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Analyte	CAS #	Original Found	QC Found	Units	% RecovLimits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158008					
Uranium-232 Tracer BLANK	14158-29-3				86.9 25 - 105				01/28/11
				QC Sample #46644					
Uranium-232 Tracer LCS	14158-29-3				94 25 - 105				01/28/11
				QC Sample #46645					
Uranium-232 Tracer DUP	14158-29-3				63.5 25 - 105				01/28/11
				QC Sample #46646					
				Original 111158001					
Uranium-232 Tracer	14158-29-3				101.4 25 - 105	10.50			01/28/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

QC Batch 174431 Test Uranium (AEA)
Associated Samples 111158009, 111158010, 111158011, 111158012, 111158013, 111158014, 111158015, 111158016

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158009						
Uranium-232 Tracer	14158-29-3				90.1	25 - 105				01/31/11
SAMPLE				Sample #111158010						
Uranium-232 Tracer	14158-29-3				78.8	25 - 105				01/31/11
SAMPLE				Sample #111158011						
Uranium-232 Tracer	14158-29-3				93	25 - 105				01/31/11
SAMPLE				Sample #111158012						
Uranium-232 Tracer	14158-29-3				93.3	25 - 105				01/31/11
SAMPLE				Sample #111158013						
Uranium-232 Tracer	14158-29-3				89.4	25 - 105				01/31/11
SAMPLE				Sample #111158014						
Uranium-232 Tracer	14158-29-3				65.5	25 - 105				01/31/11
SAMPLE				Sample #111158015						
Uranium-232 Tracer	14158-29-3				93	25 - 105				01/31/11

Quality Control Report

Attention Michael Neely
Department Radiochemistry

Group # WSCF111158

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE				Sample #111158016						
Uranium-232 Tracer BLANK	14158-29-3			QC Sample #46650	86.6	25 - 105				01/31/11
Uranium-232 Tracer LCS	14158-29-3			QC Sample #46651	93.6	25 - 105				01/31/11
Uranium-232 Tracer DUP	14158-29-3			QC Sample #46652 Original 111158009	58.5	25 - 105				01/31/11
Uranium-232 Tracer	14158-29-3				92.5	25 - 105	5.10			01/31/11

Analytical Comment Report

Attention: Michael Neely

Group #

WSCF111158

Quality Control Comments

Department Radiochemistry

46646

B2B8K4(111158001DUP)

Analyte Uranium-235 - Uranium (AEA)

[1] Duplicate RPD out-of-limits. RPD limit does not apply to results near the Minimum Detectable Concentration.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 19 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

ATTN: Michael Neely

Customer Code: CHPRC

PO #: 401629/ES20

Work Order #: 111158

Profile #: F02-007-1230

Proj. Mgr.:

Phone:

The following samples were received from you on 1/16/2011 9:10:00 AM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
Tests scheduled				
111158001	B2B8K4	OTHERSOLID	1/15/2011 08:22	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158002	B2B8K5	OTHERSOLID	1/15/2011 08:20	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158003	B2B8K6	OTHERSOLID	1/15/2011 08:12	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158004	B2B8K7	OTHERSOLID	1/15/2011 08:14	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158005	B2B8K8	OTHERSOLID	1/15/2011 08:32	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158006	B2B8K9	OTHERSOLID	1/15/2011 08:34	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158007	B2B8L0	OTHERSOLID	1/15/2011 08:28	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158008	B2B8L1	OTHERSOLID	1/15/2011 08:30	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158009	B2B8L2	OTHERSOLID	1/15/2011 08:26	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158010	B2B8L3	OTHERSOLID	1/15/2011 08:24	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158011	B2B8L4	OTHERSOLID	1/15/2011 08:16	1/16/2011 09:10

Tuesday, January 25, 2011 7:08:51 PM

Page 1 of 15

RCF 2.10.04.3

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S

111158012	B2B8L5	OTHERSOLID	1/15/2011 08:18	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158013	B2B8L6	OTHERSOLID	1/15/2011 08:02	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158014	B2B8L7	OTHERSOLID	1/15/2011 08:04	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158015	B2B8L8	OTHERSOLID	1/15/2011 08:06	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				
111158016	B2B8L9	OTHERSOLID	1/15/2011 08:08	1/16/2011 09:10
AEA-U-S; CN-S; GAB-S; RCRA-MS-S; SR89/90-S				

Test Acronym Description

Test Acronym	Description
AEA-U-S	Uranium Isotopic (AEA) (S)
CN-S	Cyanide (Spectroscopy) (S)
GAB-S	Gross Alpha/Beta (S)
RCRA-MS-S	ICP-MS RCRA (S)
SR89/90-S	Strontium 89/90 (GPC) (S)

CH2MHill Plots Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F02-007-1230	PAGE 1 OF 1
COLLECTOR KC Patterson CHRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 273-7924	PROJECT COORDINATOR WISBEE, DL	PRICE CODE 90	DATA TURNAROUND 72 Days / 21 Days
SAMPLING LOCATION Q2740425, 177	PROJECT DESIGNATION 130-4R-4 Pump & Treat - Spent Resin Waste Degradation	SAP NO. F02-007	COA 311902510	AIR QUALITY	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNFN-585-6	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A				
MATRIX* A-Asp B-Asp C-Asp D-Asp E-Asp F-Asp G-Asp H-Asp I-Asp J-Asp K-Asp L-Asp M-Asp N-Asp O-Asp P-Asp Q-Asp R-Asp S-Asp T-Asp U-Asp V-Asp W-Asp X-Asp Y-Asp Z-Asp	POSSIBLE SAMPLE HAZARDS/REMARKS Contains hazardous material at concentrations that may or may not be regulated but transportation per 49 CFR 171.15(a) is required. See 49 CFR 171.15(a) for more information.	PRESERVATION Cooling	NO. OF CONTAINER(S) 1	VOLUME 100 mL	SAMPLE ANALYSIS See 49 CFR 171.15(a) for more information.
SPECIAL HANDLING AND/OR STORAGE 111158					
SAMPLE NO. B2B3K4	MATRIX* 1	OTHER SOLID	SAMPLE DATE JAN 13 2011	SAMPLE TIME 0830	✓

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM KC Patterson CHRC	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for KR-4 work; 401630ES20 for KW work; and 401629ES20 for KX work. *** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. *** The lab will group samples submitted for analysis under SAF/PSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotope (Uranium); Strontium-89,90 - Total Sr (Total beta radiocesium); Cyanide (Total) - 335.2;	
RELINQUISHED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN LmAgulor emOf	DATE/TIME 1-16-11 0830		
RELINQUISHED BY/REMOVED FROM LmAgulor emOf	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN APM-R2	DATE/TIME 1-16-11 0910		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

A-0000448 R07.2

Thursday, January 06, 2011 7:20:40 PM
Page 1 of 19

CHAIN OF POSSESSION		SIGN: PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM KC Pathway	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401629E520 for KW-4 work; 401629E520 for KW work; and 401629E520 for KW work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. ** The lab will group samples submitted for analysis under SAF/FSR R02-G07 etc R02-G08 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Acc-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2	
RELINQUISHED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN Com Analyzer Com Qk	DATE/TIME 1-16-11 0830		
RELINQUISHED BY/REMOVED FROM Com Analyzer Com Qk	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN TA Analytical Lab	DATE/TIME 1-16-11 0910		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	ORIGINAL	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Sample Receipt

Chain of Custody

CH2M HILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FD2-007-1233		PAGE 1 OF 1	
COLLECTOR: HC PROBERT CS PRRC	COMPANY CONTACT PLATEAU RT	TELEPHONE NO. 324-7304	PROJECT COORDINATOR WISBING, EL	PRICE CODE 9D	DATA TURNAROUND 21 Days / 21 Days		
SAMPLING LOCATION K07-10-177-178	PROJECT DESIGNATION 100-10-4 Pump & Treat - Spent Resin Waste Configuration	SAY NO. F02-007	AIR QUALITY				
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N 565-6	ACTUAL SAMPLE DEPTH N/A	COA 401600520	METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHEPHERD TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A					
MATRIX A-100 A-100-1 A-100-2 A-100-3 A-100-4 A-100-5 A-100-6 A-100-7 A-100-8 A-100-9 A-100-10 A-100-11 A-100-12 A-100-13 A-100-14 A-100-15 A-100-16 A-100-17 A-100-18 A-100-19 A-100-20	POSSIBLE SAMPLE HAZARDS/REMARKS Contains Hazardous Material as designated by the transporter per 49 CFR / IATA Dangerous Goods Regulations but not hazardous per DOE Order 5400.5 (1990/1993)	PRESERVATION Cooling					
		HOLDING TIME 180/90 Days					
		TYPE OF CONTAINER A					
		NO. OF CONTAINER(S) 1					
		VOLUME 900L					
		SAMPLE ANALYSIS NE (F0202) IN ANALYTICAL INSTRUCTIONS					
SPECIAL HANDLING AND/OR STORAGE							
SAMPLE NO. B/BK6	MATRIX* 3	OTHER SOLID	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0912	✓		

CHAIN OF POSSESSION		SIGN/PRINT NAMES		DATE/TIME		SPECIAL INSTRUCTIONS	
RECEIVED BY/REMOVED FROM CH2M HILL	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACH for all analytical work being performed by WSCF Laboratory is 401628ES20 for KR-4 work; 401630ES20 for KW work; and 401629ES20 for KX work. *** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. *** The lab will group samples submitted for analysis under SAF/FSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) A05-01 - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr (Total beta radioisotopes); Cytidine (Total) - 338.2.			
RECEIVED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0530	RECEIVED BY/STORED IN cmh/auilar cmh/auilar	DATE/TIME 1-16-11 0530				
RECEIVED BY/REMOVED FROM cmh/auilar cmh/auilar	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN TAP/mon/auilar	DATE/TIME 1-16-11 0910				
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME				
LABORATORY SECTION	RECEIVED BY	DATE/TIME					
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME			

February 04, 2011 19:02:44

Page 87 of 100

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

Sample Receipt

Chain of Custody

O2HMI Plastics Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F02-007-1233		PAGE 3 OF 3	
COLLECTOR KC Patterson CHPRC	COMPANY CONTACT BURNS, RT	TELEPHONE NO. 273-7924	PROJECT COORDINATOR WIDRIS, CL	PRICE CODE 90	DATA TURNAROUND 21 Days / 71 Days		
SAMPLING LOCATION KCP-10-128, 100	PROJECT DESIGNATION 100-KF-4 Pump & Treat - Spent Resin Water Disposition	SAF NO. F02-007	AIR QUALITY ☐				
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-A-SBS-6	ACTUAL SAMPLE DEPTH N/A	COA 301380ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A					
MATRIX* As is On-site Agates Substrate Soils Sludge Sediment Vegetation Waste Wastewater Air Other	POSSIBLE SAMPLE HAZARDS/REMARKS Contains Radioactive Material at trace levels. This may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not necessary for DOE Order 5400.5 (5290/1993)	PRESERVATION Dewar	HOLDING TIME 100/800 Days				
		TYPE OF CONTAINER A	NO. OF CONTAINER(S) 1				
		VOLUME 500mL	SAMPLE ANALYSIS See (F02-007) IN-5400.5 (5290/1993)				
SPECIAL HANDLING AND/OR STORAGE							
SAMPLE NO. B38K7	MATRIX* 4 OTHER SOLID	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0830	✓			

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
KC Patterson CHPRC	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSI-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for KR-4 work; 401630ES20 for KW work; and 401629ES20 for KX work. ** IGO Area Generator Knowledge Form applies to samples submitted under this SAF. ** The lab will group samples submitted for analysis under SAF/ESR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotope Uranium; Strontium-89,90 - Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2;	
RECEIVED BY/STORED IN Em Aquilar Control	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN Em Aquilar Control	DATE/TIME 1-16-11 0830		
RECEIVED BY/STORED IN Em Aquilar Control	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN Em Aquilar Control	DATE/TIME 1-16-11 0910		
RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Transmitted, January 25, 2011 7:00:40 PM
Page 6 of 10

February 04, 2011 19:02:44

Page 88 of 100

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

Sample Receipt

Chain of Custody

CH2M HILL Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		P02-007-1234		PAGE 1 OF 1		
COLLECTOR	KC Patterson CH2M	COMPANY CONTACT	EVANS, RT	TELEPHONE NO.	303-7524	PROJECT COORDINATOR	WATSON, TC	
SAMPLING LOCATION	K27-10-137, 92216	PROJECT DESIGNATION	100-10-1 Pump & Treat - Spent Solvent Waste Degradation		SAF NO	P02-007	PRICE CODE	90
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF N-585-6		ACTUAL SAMPLE DEPTH	N/A	AIR QUALITY	☐
SHIPPED TO	Waste Sampling & Characterization	OFFSITE PROPERTY NO.	N/A		WILL OF LADING/FAIR BILL NO.	N/A		DATA TURNAROUND 91 Days / 21 Days
MATRIX*	OTHER SOLID	POSSIBLE SAMPLE HAZARDS/REMARKS	CONCNS RADIOACTIVE MATERIAL AT CONCENTRATIONS THAT MAY OR MAY NOT BE REGULATED FOR TRANSPORTATION PER 49 CFR / IATA DANGEROUS GOODS REGULATIONS BUT ARE NOT REGULATED PER DOE ORDER 5400.5 (1996/1992)		PRESERVATION	NONE		
NO. OF CONTAINER(S)	1	HOLDING TIME	180 DAYS		TYPE OF CONTAINER	P		
VOLUME	500L	SAMPLE ANALYSES	N/A (SEE 500L CONTAINER)					
SAMPLE NO.	5	MATRIX*	OTHER SOLID	SAMPLE DATE	JAN 15 2011	SAMPLE TIME	0830	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	KC Patterson CH2M	DATE/TIME	JAN 15 2011	RECEIVED BY/STORED IN	SSU-R2
RELINQUISHED BY/REMOVED FROM	SSU-R2	DATE/TIME	1-16-11 0830	RECEIVED BY/STORED IN	em Aquino
RELINQUISHED BY/REMOVED FROM	em Aquino	DATE/TIME	1-16-11 0910	RECEIVED BY/STORED IN	em Aquino
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

** The CACN for all analytical work being performed by WSCF laboratory is 401629ES20 for KR 4 work; 401638ES20 for KW work; and 401629ES20 for KR work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. ** The lab will group samples submitted for analysis under SAF/PFA P02-007 and P02-008 into one analytical batch for QC and reporting purposes.

(1) Metals by ICP (TCLP) - 1311/200.6 (Chromium); Metals by ICP (TCLP) Ant-on - 1311/200.6 (Nickel); Gross Alpha; Gross Beta; Isotope Uranium; Strontium-89,90 -- Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2

ORIGINAL

February 04, 2011 19:02:44

Page 89 of 100

Transferring, January 25, 2011 7:00:00 PM
Page 7 of 10

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM CHPC SSU-R2 RELINQUISHED BY/REMOVED FROM Comptroller Cn High RELINQUISHED BY/REMOVED FROM	DATE/TIME JAN 15 2011 1-16-11 0830 DATE/TIME 1-16-11 0910 DATE/TIME	RECEIVED BY/STORED IN SSU-R2 Comptroller Cn High B. M. High RECEIVED BY/STORED IN DATE/TIME 1-16-11 0910 DATE/TIME	DATE/TIME JAN 15 2011 1-16-11 0830 DATE/TIME 1-16-11 0910 DATE/TIME	** The CAN for all analytical work being performed by WSCF laboratory is 4015295520 for KR-4 work; 4916301520 for KW work; and 4015295520 for KX work. ☐ ** 100 Ares Generator Knowledge Form applies to samples submitted under this SAF. ☐ ** The lab will group samples submitted for analysis under SAF/PSR PG-027 and PG-028 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89/90 - Total Sr (Total beta radiostrontium); Cyanide (Total) - 335.2;	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Sample Receipt

Chain of Custody

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			P02-007-1236	PAGE 1 OF 1
COLLECTOR KC Patterson CHPRC	COMPANY CONTACT CHPRC	TELEPHONE NO. 323-7524	PROJECT COORDINATOR WILSON, D	PRICE CODE #0	DATA TURNAROUND 21 Days / 23 Days	
SAMPLING LOCATION KX7-10-129, 131	PROJECT DESIGNATION 100-408 / Pump & Treat / Spent Resin Storage Designation	SAP NO. P02-007	COA J010000018	AIR QUALITY ☐		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HDF 10-986.6	ACTUAL SAMPLE DEPTH N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Waste Sampling & Characterization	OPPOSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A				
MATRIX A-A-4 Inorganic Organic Cyanide Sulfide Sulfate Nitrate Nitrite Ammonia Ammonium Chloride Fluoride Phosphate Silicate Sulfate Nitrate Nitrite Ammonia Ammonium Chloride Fluoride Phosphate Silicate	POSSIBLE SAMPLE HAZARDS / REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Regulations. (Radioactive Regulations but are not releasable per DOE Order 5400.5 (1990) (1991))	PRESERVATION DAP-4C	NO. OF CONTAINERS 1	VOLUME 200-L	SAMPLE ANALYSIS SEE LIST IN REPORT P02-007-1236	
	SPECIAL HANDLING AND/OR STORAGE					
SAMPLE NO. 021001.3	MATRIX* OTHER BULK	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0830			

CHAIN OF POSSESSION		SIGN / PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY / REMOVED FROM KC Patterson	DATE/TIME JAN 15 2011	RECEIVED BY / STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for KR-4 work; 401630ES20 for KN work; and 401623ES20 for KX work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. ** The lab will group samples submitted for analysis under SAF/FSR P02-007 and P02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr; (Total beta radioisotopes); Cyanide (Total) - 335.2;	
RELINQUISHED BY / REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY / STORED IN Mr. Dan for Am. High	DATE/TIME 1-16-11 0830		
RELINQUISHED BY / REMOVED FROM Mr. Dan for Am. High	DATE/TIME 1-16-11 0910	RECEIVED BY / STORED IN Dr. Armin for Am. High	DATE/TIME 1-16-11 0910		
RELINQUISHED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
RELINQUISHED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
RELINQUISHED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

W-000-428 REV 5

February 04, 2011 19:02:44

Page 91 of 100

Transacted: January 27, 2011 7:00:46 PM
Page 9 of 11

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		PR2-007-1237	PAGE 1 OF 1
COLLECTOR KC Patterson CH2M	COMPANY CONTACT EVANS RT	TELEPHONE NO. 313-7974	PROJECT COORDINATOR WISNIE, J	PRICE CODE SD	DATE TURNAROUND 21 Days / 21 Days
SAMPLING LOCATION K37-00-120; 124	PROJECT DESIGNATION 100-K37-1 Pump & Treat - Seep Area West Designator	SAP NO. F02-007	AIR QUALITY ☐	METHOD OF SHIPMENT GOVERNMENT MAIL	
XCF CHEST NO. N/A	FIELD LOGBOOK NO. H107V-SB5-6	ACTUAL SAMPLE DEPTH N/A	COA 1011905.510	BILL OF LADING/AIR BILL NO. N/A	
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A				
MATRIX A- for Di- trace Ni- trace Co- trace Se- trace Cr- trace Mn- trace Fe- trace Cu- trace Zn- trace Pb- trace Cd- trace Hg- trace As- trace Sb- trace Bi- trace Mo- trace W- trace V- trace Nb- trace Ta- trace Ti- trace Zr- trace Hf- trace Y- trace La- trace Ce- trace Pr- trace Nd- trace Pm- trace Sm- trace Eu- trace Gd- trace Tb- trace Dy- trace Ho- trace Er- trace Tm- trace Yb- trace Lu- trace	POSSIBLE SAMPLE HAZARDS/REMARKS Contact: Radioactive Material at all concentrations that may be not be regulated for transportation per 49 CFR 171.8. Dangerous Goods Regulations but are not regulated per 1005. Other: 5400.5 (3390-1993)	PRESERVATION Cooling HOLDING TIME TYPE OF CONTAINER NO. OF CONTAINER(S) VOLUME SPECIAL HANDLING AND/OR STORAGE			
SAMPLE NO. K37-00-120	MATRIX OTHER SOLIDS	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0830		

CHAIN OF POSSESSION		SIGN/ PRINT NAME'S		SPECIAL INSTRUCTIONS	
RECEIVED BY/REMOVED FROM SSU-R2	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for K3-4 work; 401630ES20 for KW work; and 401629ES20 for KX work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAP. ** The lab will group samples submitted for analysis under SAF/FSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes.	
RECEIVED BY/REMOVED FROM Cm Dawlar Engh	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN Cm Dawlar Engh	DATE/TIME 1-16-11 0830	(1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopes: Uranium, Strontium-89,90 -- Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2;	
RECEIVED BY/REMOVED FROM Cm Dawlar Engh	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN Cm Dawlar Engh	DATE/TIME 1-16-11 0910		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

February 04, 2011 19:02:44

Page 92 of 100

Transmitted: January 20, 2011 7:00:46 PM
Page 10 of 18

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

Sample Receipt

Chain of Custody

CH2MHILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F02-007-1228		PAGE 1 OF 1	
COLLECTOR KC Pellerin CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 303-75-24	PROJECT COORDINATOR WHEELER, ER	PRICER CODE 90	DATE TURNAROUND		
SAMPLING LOCATION K37-26 131 100	PROJECT DESIGNATION 100 KS-4 Pump & Treat - Spent Wash Water Disposition	SAP NO. K02-007	ATR QUALITY ☐	2: Days / 7: Days			
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNEW-056	ACTUAL SAMPLE DEPTH N/A	COA 12/28/2010	METHOD OF SHIPMENT CUSTOMER VEHICLE			
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/ATR BILL NO. N/A					
FERTILITY a. No b. Low c. Medium d. High e. Very High f. Other g. Not Determined h. Other i. Other j. Other k. Other l. Other m. Other n. Other o. Other p. Other q. Other r. Other s. Other t. Other u. Other v. Other w. Other x. Other y. Other z. Other aa. Other ab. Other ac. Other ad. Other ae. Other af. Other ag. Other ah. Other ai. Other aj. Other ak. Other al. Other am. Other an. Other ao. Other ap. Other aq. Other ar. Other as. Other at. Other au. Other av. Other aw. Other ax. Other ay. Other az. Other ba. Other bb. Other bc. Other bd. Other be. Other bf. Other bg. Other bh. Other bi. Other bj. Other bk. Other bl. Other bm. Other bn. Other bo. Other bp. Other bq. Other br. Other bs. Other bt. Other bu. Other bv. Other bw. Other bx. Other by. Other bz. Other ca. Other cb. Other cc. Other cd. Other ce. Other cf. Other cg. Other ch. Other ci. Other cj. Other ck. Other cl. Other cm. Other cn. Other co. Other cp. Other cq. Other cr. Other cs. Other ct. Other cu. Other cv. Other cw. Other cx. Other cy. Other cz. Other da. Other db. Other dc. Other dd. Other de. Other df. Other dg. Other dh. Other di. Other dj. Other dk. Other dl. Other dm. Other dn. Other do. Other dp. Other dq. Other dr. Other ds. Other dt. Other du. Other dv. Other dw. Other dx. Other dy. Other dz. Other ea. Other eb. Other ec. Other ed. Other ee. Other ef. Other eg. Other eh. Other ei. Other ej. Other ek. Other el. Other em. Other en. Other eo. Other ep. Other eq. Other er. Other es. Other et. Other eu. Other ev. Other ew. Other ex. Other ey. Other ez. Other fa. Other fb. Other fc. Other fd. Other fe. Other ff. Other fg. Other fh. Other fi. Other fj. Other fk. Other fl. Other fm. Other fn. Other fo. Other fp. Other fq. Other fr. Other fs. Other ft. Other fu. Other fv. Other fw. Other fx. Other fy. Other fz. Other ga. Other gb. Other gc. Other gd. Other ge. Other gf. Other gg. Other gh. Other gi. Other gj. Other gk. Other gl. Other gm. Other gn. Other go. Other gp. Other gq. Other gr. Other gs. Other gt. Other gu. Other gv. Other gw. Other gx. Other gy. Other gz. Other ha. Other hb. Other hc. Other hd. Other he. Other hf. Other hg. Other hh. Other hi. Other hj. Other hk. Other hl. Other hm. Other hn. Other ho. Other hp. Other hq. Other hr. Other hs. Other ht. Other hu. Other hv. Other hw. Other hx. Other hy. Other hz. Other ia. Other ib. Other ic. Other id. Other ie. Other if. Other ig. Other ih. Other ii. Other ij. Other ik. Other il. Other im. Other in. Other io. Other ip. Other iq. Other ir. Other is. Other it. Other iu. Other iv. Other iw. Other ix. Other iy. Other iz. Other ja. Other jb. Other jc. Other jd. Other je. Other jf. Other jg. Other jh. Other ji. Other jj. Other jk. Other jl. Other jm. Other jn. Other jo. Other jp. Other jq. Other jr. Other js. Other jt. Other ju. Other jv. Other jw. Other jx. Other jy. Other jz. Other ka. Other kb. Other kc. Other kd. Other ke. Other kf. Other kg. Other kh. Other ki. Other kj. Other kk. Other kl. Other km. Other kn. Other ko. Other kp. Other kq. Other kr. Other ks. Other kt. Other ku. Other kv. Other kw. Other kx. Other ky. Other kz. Other la. Other lb. Other lc. Other ld. Other le. Other lf. Other lg. Other lh. Other li. Other lj. Other lk. Other ll. Other lm. Other ln. Other lo. Other lp. Other lq. Other lr. Other ls. Other lt. Other lu. Other lv. Other lw. Other lx. Other ly. Other lz. Other ma. Other mb. Other mc. Other md. Other me. Other mf. Other mg. Other mh. Other mi. Other mj. Other mk. Other ml. Other mm. Other mn. Other mo. Other mp. Other mq. Other mr. Other ms. Other mt. Other mu. Other mv. Other mw. Other mx. Other my. Other mz. Other na. Other nb. Other nc. Other nd. Other ne. Other nf. Other ng. Other nh. Other ni. Other nj. Other nk. Other nl. Other nm. Other nn. Other no. Other np. Other nq. Other nr. Other ns. Other nt. Other nu. Other nv. Other nw. Other nx. Other ny. Other nz. Other oa. Other ob. Other oc. Other od. Other oe. Other of. Other og. Other oh. Other oi. Other oj. Other ok. Other ol. Other om. Other on. Other oo. Other op. Other oq. Other or. Other os. Other ot. Other ou. Other ov. Other ow. Other ox. Other oy. Other oz. Other pa. Other pb. Other pc. Other pd. Other pe. Other pf. Other pg. Other ph. Other pi. Other pj. Other pk. Other pl. Other pm. Other pn. Other po. Other pp. Other pq. Other pr. Other ps. Other pt. Other pu. Other pv. Other pw. Other px. Other py. Other pz. Other qa. Other qb. Other qc. Other qd. Other qe. Other qf. Other qg. Other qh. Other qi. Other qj. Other qk. Other ql. Other qm. Other qn. Other qo. Other qp. Other qq. Other qr. Other qs. Other qt. Other qu. Other qv. Other qw. Other qx. Other qy. Other qz. Other ra. Other rb. Other rc. Other rd. Other re. Other rf. Other rg. Other rh. Other ri. Other rj. Other rk. Other rl. Other rm. Other rn. Other ro. Other rp. Other rq. Other rr. Other rs. Other rt. Other ru. Other rv. Other rw. Other rx. Other ry. Other rz. Other sa. Other sb. Other sc. Other sd. Other se. Other sf. Other sg. Other sh. Other si. Other sj. Other sk. Other sl. Other sm. Other sn. Other so. Other sp. Other sq. Other sr. Other ss. Other st. Other su. Other sv. Other sw. Other sx. Other sy. Other sz. Other ta. Other tb. Other tc. Other td. Other te. Other tf. Other tg. Other th. Other ti. Other tj. Other tk. Other tl. Other tm. Other tn. Other to. Other tp. Other tq. Other tr. Other ts. Other tu. Other tv. Other tw. Other tx. Other ty. Other tz. Other ua. Other ub. Other uc. Other ud. Other ue. Other uf. Other ug. Other uh. Other ui. Other uj. Other uk. Other ul. Other um. Other un. Other uo. Other up. Other uq. Other ur. Other us. Other ut. Other uu. Other uv. Other uw. Other ux. Other uy. Other uz. Other va. Other vb. Other vc. Other vd. Other ve. Other vf. Other vg. Other vh. Other vi. Other vj. Other vk. Other vl. Other vm. Other vn. Other vo. Other vp. Other vq. Other vr. Other vs. Other vt. Other vu. Other vv. Other vw. Other vx. Other vy. Other vz. Other wa. Other wb. Other wc. Other wd. Other we. Other wf. Other wg. Other wh. Other wi. Other wj. Other wk. Other wl. Other wm. Other wn. Other wo. Other wp. Other wq. Other wr. Other ws. Other wt. Other wu. Other wv. Other ww. Other wx. Other wy. Other wz. Other xa. Other xb. Other xc. Other xd. Other xe. Other xf. Other xg. Other xh. Other xi. Other xj. Other xk. Other xl. Other xm. Other xn. Other xo. Other xp. Other xq. Other xr. Other xs. Other xt. Other xu. Other xv. Other xw. Other xx. Other xy. Other xz. Other ya. Other yb. Other yc. Other yd. Other ye. Other yf. Other yg. Other yh. Other yi. Other yj. Other yk. Other yl. Other ym. Other yn. Other yo. Other yp. Other yq. Other yr. Other ys. Other yt. Other yu. Other yv. Other yw. Other yx. Other yy. Other yz. Other za. Other zb. Other zc. Other zd. Other ze. Other zf. Other zg. Other zh. Other zi. Other zj. Other zk. Other zl. Other zm. Other zn. Other zo. Other zp. Other zq. Other zr. Other zs. Other zt. Other zu. Other zv. Other zw. Other zx. Other zy. Other zz. Other	PRESERVATION HOLDING TIME TYPE OF CONTAINER NO. OF CONTAINER(S) VOLUME SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS ANALYSIS METHOD ANALYSIS DATE ANALYSIS TIME	SAMPLE NO. B27012	MATRIX OTHER SOLID	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0830	☒

CHAIN OF POSSESSION		SIGNATURES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 13 2011	** The CACH for all analytical work being performed by WSCF laboratory is 4016286520 for KR-4 work; 4016306520 for KM work; and 4016296520 for KX work. CACH 100 Area Generator Knowledge Form applies to samples submitted under this SAP. CACH 100 Area Generator Knowledge Form applies to samples submitted for analysis under SAP/FSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89/90 - Total Sr; (Total beta radioisotopes); Cyanide (Total) - 335.2;	
RELINQUISHED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN CH2MHILL	DATE/TIME 1-16-11 0830		
RELINQUISHED BY/REMOVED FROM CH2MHILL	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN CH2MHILL	DATE/TIME 1-16-11 0910		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

February 04, 2011 19:02:44

Page 93 of 100

Transmittal, January 25, 2011 7:09:46 PM
Page 11 of 18

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

Sample Receipt

Chain of Custody

CRCHM Platform Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F02-007-1230	PAGE 1 OF 1
COLLECTOR KC Patterson CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7324	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE PD	DATA TURNAROUND 21 Days / 21 Days
SAMPLING LOCATION ACF-10-130; 100	PROJECT DESIGNATION 10042-4 Pump & Truck - Spore Neen White Designation	SAF NO. F02-007	COA 1013908310	AN QUALITY []	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICR CHEST NO. N/A	FIELD LOGBOOK NO. HNF-10-585-6	ACTUAL SAMPLE DEPTH N/A	SILL OF LADING/ATR BILL NO. N/A		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A				
MATRIX* Aqueous Solid Gaseous Liquid Semi-solid Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material of concern/atoms that may or may not be regulated for transportation per 49 CFR 173.44. Dangerous Goods Regulations list are not releasable per DOE Order 5400.5 (1990-1993)	PRESERVATION Cooling	HOLDING TIME 100 Days		
		TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1		
		VOLUME 500 ml			
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS OR 10042-4 10042-4 10042-4			
SAMPLE NO. 003913	MATRIX* OTHER SOLID	SAMPLE DATE JAN 15 2011	SAMPLE TIME 0830		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACH for all analytical work being performed by WSCF laboratory is 401629ES20 for RR-4 work; 401629ES20 for KIV work; and 401629ES20 for KX work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF.2. ** The lab will group samples submitted for analysis under SAF/PSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.6 (Chromium); Metals by ICP (TCLP) Add-on - 1311/200.6 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2;	
RELINQUISHED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN Am Aquilar Conch	DATE/TIME 1-16-11 0830		
RELINQUISHED BY/REMOVED FROM Am Aquilar Conch	DATE/TIME 1-16-11 0930	RECEIVED BY/STORED IN DA FINE, J. J.	DATE/TIME 1-16-11 0930		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Transmitted January 21, 2011 7:00 AM
Page 12 of 18

February 04, 2011 19:02:44

Page 94 of 100

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RECEIVED BY/REMOVED FROM KC Padgett	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for KR-4 work; 401630ES20 for KW work; and 401629ES30 for KX work. ☐ ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. ☐ ** The lab will group samples submitted for analysis under SAF/FSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (ICLP) - 1311/200.8 (Chromium); Metals by ICP (ICLP) Add-on - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89.90 - Total Sr; Total Beta; radiostrontium; Cyanide (Total) - 335.2;	
RELINQUISHED BY/REMOVED FROM SSU-R2 1-14-11	DATE/TIME 0830	RECEIVED BY/STORED IN Cm Aguilar Cm Aug 1-14-11	DATE/TIME 0830		
RELINQUISHED BY/REMOVED FROM Cm Aguilar Cm Aug 1-14-11	DATE/TIME 0910	RECEIVED BY/STORED IN Cm Aguilar Cm Aug 1-14-11	DATE/TIME 0910		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	OK	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
PANEL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Figure 1

August 1972

Sample Receipt

Chain of Custody

CITYWILL Plasma Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F02-007-1242		PAGE 1 OF 1			
COLLECTOR KC Patterson CHPRC	COMPANY CONTACT EDENS, RT	TELEPHONE NO. 303-7994	PROJECT COORDINATION W2526, TX	PRICE CODE 9D	DATA TURNAROUND 31 Days / 31 Days				
SAMPLING LOCATION 100-33-105, 205	PROJECT DESIGNATION 100-33-105 Pump & Treat - Ground Water Remediation	SAF NO. PSR-007	AIR QUALITY ☐						
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HAFN-SS56	ACTUAL SAMPLE DEPTH N/A	COA 303406510	METHOD OF SHIPMENT GOVERNMENT VEHICLE					
SHIPPED TO White Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A							
HAZARD a. Radioactive b. Corrosive c. Flammable d. Oxidizing e. Toxic f. Infectious g. Other h. Unknown i. Other j. Other k. Other l. Other m. Other n. Other o. Other p. Other q. Other r. Other s. Other t. Other u. Other v. Other w. Other x. Other y. Other z. Other aa. Other ab. Other ac. Other ad. Other ae. Other af. Other ag. Other ah. Other ai. Other aj. Other ak. Other al. Other am. Other an. Other ao. Other ap. Other aq. Other ar. Other as. Other at. Other au. Other av. Other aw. Other ax. Other ay. Other az. Other ba. Other bb. Other bc. Other bd. Other be. Other bf. Other bg. Other bh. Other bi. Other bj. Other bk. Other bl. Other bm. Other bn. Other bo. Other bp. Other bq. Other br. Other bs. Other bt. Other bu. Other bv. Other bw. Other bx. Other by. Other bz. Other ca. Other cb. Other cc. Other cd. Other ce. Other cf. Other cg. Other ch. Other ci. Other cj. Other ck. Other cl. Other cm. Other cn. Other co. Other cp. Other cq. Other cr. Other cs. Other ct. Other cu. Other cv. Other cw. Other cx. Other cy. Other cz. Other da. Other db. Other dc. Other dd. Other de. Other df. Other dg. Other dh. Other di. Other dj. Other dk. Other dl. Other dm. Other dn. Other do. Other dp. Other dq. Other dr. Other ds. Other dt. Other du. Other dv. Other dw. Other dx. Other dy. Other dz. Other ea. Other eb. Other ec. Other ed. Other ee. Other ef. Other eg. Other eh. Other ei. Other ej. Other ek. Other el. Other em. Other en. Other eo. Other ep. Other eq. Other er. Other es. Other et. Other eu. Other ev. Other ew. Other ex. Other ey. Other ez. Other fa. Other fb. Other fc. Other fd. Other fe. Other ff. Other fg. Other fh. Other fi. Other fj. Other fk. Other fl. Other fm. Other fn. Other fo. Other fp. Other fq. Other fr. Other fs. Other ft. Other fu. Other fv. Other fw. Other fx. Other fy. Other fz. Other ga. Other gb. Other gc. Other gd. Other ge. Other gf. Other gg. Other gh. Other gi. Other gj. Other gk. Other gl. Other gm. Other gn. Other go. Other gp. Other gq. Other gr. Other gs. Other gt. Other gu. Other gv. Other gw. Other gx. Other gy. Other gz. Other ha. Other hb. Other hc. Other hd. Other he. Other hf. Other hg. Other hh. Other hi. Other hj. Other hk. Other hl. Other hm. Other hn. Other ho. Other hp. Other hq. Other hr. Other hs. Other ht. Other hu. Other hv. Other hw. Other hx. Other hy. Other hz. Other ia. Other ib. Other ic. Other id. Other ie. Other if. Other ig. Other ih. Other ii. Other ij. Other ik. Other il. Other im. Other in. Other io. Other ip. Other iq. Other ir. Other is. Other it. Other iu. Other iv. Other iw. Other ix. Other iy. Other iz. Other ja. Other jb. Other jc. Other jd. Other je. Other jf. Other jg. Other jh. Other ji. Other jj. Other jk. Other jl. Other jm. Other jn. Other jo. Other jp. Other jq. Other jr. Other js. Other jt. Other ju. Other jv. Other jw. Other jx. Other jy. Other jz. Other ka. Other kb. Other kc. Other kd. Other ke. Other kf. Other kg. Other kh. Other ki. Other kj. Other kk. Other kl. Other km. Other kn. Other ko. Other kp. Other kq. Other kr. Other ks. Other kt. Other ku. Other kv. Other kw. Other kx. Other ky. Other kz. Other la. Other lb. Other lc. Other ld. Other le. Other lf. Other lg. Other lh. Other li. Other lj. Other lk. Other ll. Other lm. Other ln. Other lo. Other lp. Other lq. Other lr. Other ls. Other lt. Other lu. Other lv. Other lw. Other lx. Other ly. Other lz. Other ma. Other mb. Other mc. Other md. Other me. Other mf. Other mg. Other mh. Other mi. Other mj. Other mk. Other ml. Other mm. Other mn. Other mo. Other mp. Other mq. Other mr. Other ms. Other mt. Other mu. Other mv. Other mw. Other mx. Other my. Other mz. Other na. Other nb. Other nc. Other nd. Other ne. Other nf. Other ng. Other nh. Other ni. Other nj. Other nk. Other nl. Other nm. Other nn. Other no. Other np. Other nq. Other nr. Other ns. Other nt. Other nu. Other nv. Other nw. Other nx. Other ny. Other nz. Other oa. Other ob. Other oc. Other od. Other oe. Other of. Other og. Other oh. Other oi. Other oj. Other ok. Other ol. Other om. Other on. Other oo. Other op. Other oq. Other or. Other os. Other ot. Other ou. Other ov. Other ow. Other ox. Other oy. Other oz. Other pa. Other pb. Other pc. Other pd. Other pe. Other pf. Other pg. Other ph. Other pi. Other pj. Other pk. Other pl. Other pm. Other pn. Other po. Other pp. Other pq. Other pr. Other ps. Other pt. Other pu. Other pv. Other pw. Other px. Other py. Other pz. Other qa. Other qb. Other qc. Other qd. Other qe. Other qf. Other qg. Other qh. Other qi. Other qj. Other qk. Other ql. Other qm. Other qn. Other qo. Other qp. Other qq. Other qr. Other qs. Other qt. Other qu. Other qv. Other qw. Other qx. Other qy. Other qz. Other ra. Other rb. Other rc. Other rd. Other re. Other rf. Other rg. Other rh. Other ri. Other rj. Other rk. Other rl. Other rm. Other rn. Other ro. Other rp. Other rq. Other rr. Other rs. Other rt. Other ru. Other rv. Other rw. Other rx. Other ry. Other rz. Other sa. Other sb. Other sc. Other sd. Other se. Other sf. Other sg. Other sh. Other si. Other sj. Other sk. Other sl. Other sm. Other sn. Other so. Other sp. Other sq. Other sr. Other ss. Other st. Other su. Other sv. Other sw. Other sx. Other sy. Other sz. Other ta. Other tb. Other tc. Other td. Other te. Other tf. Other tg. Other th. Other ti. Other tj. Other tk. Other tl. Other tm. Other tn. Other to. Other tp. Other tq. Other tr. Other ts. Other tu. Other tv. Other tw. Other tx. Other ty. Other tz. Other ua. Other ub. Other uc. Other ud. Other ue. Other uf. Other ug. Other uh. Other ui. Other uj. Other uk. Other ul. Other um. Other un. Other uo. Other up. Other uq. Other ur. Other us. Other ut. Other uu. Other uv. Other uw. Other ux. Other uy. Other uz. Other va. Other vb. Other vc. Other vd. Other ve. Other vf. Other vg. Other vh. Other vi. Other vj. Other vk. Other vl. Other vm. Other vn. Other vo. Other vp. Other vq. Other vr. Other vs. Other vt. Other vu. Other vv. Other vw. Other vx. Other vy. Other vz. Other wa. Other wb. Other wc. Other wd. Other we. Other wf. Other wg. Other wh. Other wi. Other wj. Other wk. Other wl. Other wm. Other wn. Other wo. Other wp. Other wq. Other wr. Other ws. Other wt. Other wu. Other wv. Other ww. Other wx. Other wy. Other wz. Other xa. Other xb. Other xc. Other xd. Other xe. Other xf. Other xg. Other xh. Other xi. Other xj. Other xk. Other xl. Other xm. Other xn. Other xo. Other xp. Other xq. Other xr. Other xs. Other xt. Other xu. Other xv. Other xw. Other xx. Other xy. Other xz. Other ya. Other yb. Other yc. Other yd. Other ye. Other yf. Other yg. Other yh. Other yi. Other yj. Other yk. Other yl. Other ym. Other yn. Other yo. Other yp. Other yq. Other yr. Other ys. Other yt. Other yu. Other yv. Other yw. Other yx. Other yy. Other yz. Other za. Other zb. Other zc. Other zd. Other ze. Other zf. Other zg. Other zh. Other zi. Other zj. Other zk. Other zl. Other zm. Other zn. Other zo. Other zp. Other zq. Other zr. Other zs. Other zt. Other zu. Other zv. Other zw. Other zx. Other zy. Other zz. Other		PRESERVATION 187/30 Day TYPE OF CONTAINER NO. OF CONTAINER(S) VOLUME SAMPLE ANALYSIS SEE OTHER IN 303406510		POSSIBLE SAMPLE HAZARDS/REMARKS Control is Radioactive Material at some locations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1998/1993)			SPECIAL HANDLING AND/OR STORAGE		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME						
028310	13 OTHER SOLID	JAN 15 2011	0802	✓					

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RECEIVED BY/REMOVED FROM CHPRC	DATE/TIME JAN 15 2011	RECEIVED BY/STORING IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401520ES20 for KR-4 work; 401530ES20 for KIV work; and 401620ES20 for KIV work. C** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. C** The lab will group samples submitted for analysis under SAF/PSR F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 131.1/200.8 (Chromium); Metals by ICP (TCLP) Add-on - 131.1/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 -- Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2	
RECEIVED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORING IN CHPRC	DATE/TIME 1-16-11 0830		
RECEIVED BY/REMOVED FROM CHPRC	DATE/TIME 1-16-11 0910	RECEIVED BY/STORING IN CHPRC	DATE/TIME 1-16-11 0910		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORING IN	DATE/TIME		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORING IN	DATE/TIME		
RECEIVED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORING IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

February 04, 2011 19:02:44

Page 97 of 100

Thursday, January 20, 2011 7:02:46 PM
Page 97 of 100

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

CHAIN OF POSSESSION		SIGN / PRINT NAMES		SPECIAL INSTRUCTIONS	
RECEIVED BY / REMOVED FROM CHEFC	DATE/TIME JAN 15 2011	RECEIVED BY / STORED IN SST-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401628ES20 for KR-4 work; 401630ES20 for RW work; and 401529ES20 for ICX work. ** 100 Area Generator Knowledge Form applies to samples submitted under this SAF. ** The lab will group samples submitted for analysis under SAF/FSL F02-007 and F02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP): 1311/200.8 (Chromium); Metals by ICP (TCLP) Acc-on: 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr (Total beta radiocesium); Cymide (Total): 335.2; OR:	
REINQUIRED BY / REMOVED FROM SST-R2	DATE/TIME 1-14-11 0830	RECEIVED BY / STORED IN cm An... by cmfgh	DATE/TIME 1-16-11 0830		
REINQUIRED BY / REMOVED FROM cm An... by cmfgh	DATE/TIME 1-16-11 0910	RECEIVED BY / STORED IN P... ..	DATE/TIME 1-16-11 0910		
REINQUIRED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
REINQUIRED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
REINQUIRED BY / REMOVED FROM	DATE/TIME	RECEIVED BY / STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY			DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DATE/TIME	

Sample Receipt

Chain of Custody

CCEMHI Parteau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		P02-007-1244		PAGE 1 OF 1	
COLLECTOR KC Parteau CHRG	COMPANY CONTACT FRANK, JI	TELEPHONE NO. 573-7524	PROJECT COORDINATOR WISNICK, JI	PRICE CODE 90	DATA TURNAROUND 21 Days / 21 Days		
SAMPLING LOCATION K07-10 (04) 125	PROJECT DESIGNATION ICE R3, 1 Pump & 7 Test - See #1 Rock Waste Designation	SAF NO. P02-007	AIR QUALITY 02				
ICE CREST NO. N/A	FIELD LOGBOOK NO. HURN-585-6	ACTUAL SAMPLE DEPTH N/A	COA 3013906502	METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A					
PATRIK* A-Air B-Bio C-Clean D-Dust E-Earth F-Fuel G-Gas H-Hazardous I-Incidental J-Junk K-Kitchen L-Laboratory M-Metal N-Natural O-Other P-Pesticide Q-Quarry R-Rock S-Soil T-Tar U-Urban V-Vehicle W-Water X-Xenotransplant Y-Yard Z-Zoo		POSSIBLE SAMPLE HAZARDS/REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations due to its relative per DOE Order 5400.1 (1992/1993)		PRESERVATION HOLDING TIME TYPE OF CONTAINER NO. OF CONTAINER(S) VOLUME SAMPLE ANALYSIS			
SPECIAL HANDLING AND/OR STORAGE		SAMPLE NO. 92288.0					
PATRIK* 15 OTHER SOLID		SAMPLE DATE / SAMPLE TIME JAN 15 2011 0830		✓			

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM KC Parteau	DATE/TIME JAN 15 2011	RECEIVED BY/STORED IN SSU-R2	DATE/TIME JAN 15 2011	** The CACN for all analytical work being performed by WSCF laboratory is 401528ES23 for KR-4 work; 401539ES20 for KW work, and 401529ES20 for KC work. (** 100 Area Generator Knowledge form applies to samples submitted under this SAF. (** The lab will group samples submitted for analysis under SAF/PSR P02-007 and P02-008 into one analytical batch for QC and reporting purposes. (1) Metals by ICP (TCLP) - 1311/200.8 (Chromium); Metals by ICP (TCLP) Arsenic - 1311/200.8 (Nickel); Gross Alpha; Gross Beta; Isotopic Uranium; Strontium-89,90 - Total Sr (Total beta radioisotopes); Cyanide (Total) - 335.2; 	
RELINQUISHED BY/REMOVED FROM SSU-R2	DATE/TIME 1-16-11 0830	RECEIVED BY/STORED IN Cm Aug 10y Rn Aug 10y	DATE/TIME 1-16-11 0830		
RELINQUISHED BY/REMOVED FROM Cm Aug 10y Rn Aug 10y	DATE/TIME 1-16-11 0910	RECEIVED BY/STORED IN TO PH2010y Aug 10y	DATE/TIME 1-16-11 0910		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	OR...	
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

February 04, 2011 19:02:44

Page 99 of 100

Transmitted January 27, 2013 7:00:40 PM
Page 17 of 18

3004.1.1084.3
Report ID: 111158
Group # WSCF111158

THE UNIVERSITY OF CHICAGO

442428x 2